Practitioner's Docket No. LAR 16219-1

PATENT

PAGE 01/07

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Joycelyn S. Harrison & Ji Su

Application No.: 09/696,523 Filed: October 23, 2000

Group No.: 2834 Examiner: Mark Budd

For: Membrane Position Control

Mail Stop Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

GENTRAL FAX CENTER

CERTIFICATE OF FACSIMILE

OCT 0 & 2003

Date Faxing: October 6, 2003

I hereby state that the following attached papers:

Certificate of Mailing - 1 pg.

Transmittal of Payment of Issue Fee - 2 pgs. (2 copies)

PTOL-85-1 pg. (2 copies)

are being faxed to 703-872-9318.

Practitioner's Docket No. LAR-16219-1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Joycelyn S. Harrison, Ji Su

Application No.: 09/696,523

Group No.: 2834
Examiner: Mark Budd

Filed: October 23, 2000

For: Membrane Position Control

Mail Stop Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL OF PAYMENT OF ISSUE FEE (37 C.F.R. § 1.311)

- 1. Applicant hereby pays the issue fee for the attached Issue Fee Transmittal PTOL-85.
- 2. Fee (37 C.F.R. § 1.18 (a)):

Application status is other than a small entity with a regular fee of \$1,330.00

3. Payment of fec:

Authorization is hereby made to charge the amount of \$1,330.00 to Deposit Account No. 14-0116.

Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

{00012747:1}

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

(When using Express Mail the Express Mail label number is mandatory; Express Mail certification is optional)

I heroby certify that, on the date shown below, this correspondence is being:

MAILING

☐ deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

37 C.F.R. § 1.8(a)

37 C.F.R. § 1.10*

with sufficient postage as first class mail.

as "Express Mail Post Office to Addressee"
Mailing Label No.

___(mandatory)

TRANSMISSION

X facsimile transmitted to the Patent and Trademark Office, (703) 872-9318.

Date: 10/6/03

Kelly A. Wright

(type or print name of person certifying)

^{*} Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing data for patent term adjustment calculations.

A duplicate of this paper is attached.

Date: 0tt. 6, 2003

Robin W. Edwards Registration No. 39,179 NASA Langley Research Center MS 212 3 Langley Blvd. Hampton, VA 23681-2199 U.S. 757-864-3230

Customer No. 23351

Robin W. Edwards

Practitioner's Docket No. LAR-16219-1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group No.: 2834

Examiner: Mark Budd

In re application of: Joycelyn S. Harrison, Ji Su

Application No.: 09/696,523

Filed: October 23, 2000

For: Membrane Position Control

596,523

Mail Stop Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL OF PAYMENT OF ISSUE FEE (37 C.F.R. § 1.311)

- Applicant hereby pays the issue fee for the attached Issue Fee Transmittal PTOL-85.
- 2. Fee (37 C.F.R. § 1.18 (a)):

Application status is other than a small entity with a regular fee of \$1,330.00

3. Payment of fce:

Authorization is hereby made to charge the amount of \$1,330.00 to Deposit Account No. 14-0116.

Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

[00012747:1]

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

(When using Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

37 C.F.R. § 1.8(a) with sufficient postage as first class mail.

37 C.F.R. § 1.10*
☐ as "Express Mail Post Office to Addressee"

Mailing Label No.

_ (mandatory)

TRANSMISSION

X facsimile transmitted to the Patent and Trademark Office, (703) 872-9318.

Date: 10/6/03

Kelly A. Wright

(type or print name of person certifying)

^{*} Only the date of filing (§ 1.6) will be the date used in a paient term adjustment calculation, although the date on any certificate of malling or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

A duplicate of this paper is attached.

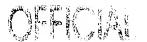
Date: Oct. 6, 2003

Robin W. Edwards

Robin W. Edwards Registration No. 39,179 NASA Langley Research Center MS 212 3 Langley Blvd. Hampton, VA 23681-2199 U.S. 757-864-3230 Customer No. 23351

> RECEIVED CENTRAL FAX CENTER

> > OCT 6 # 2003



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mall Mail Stop ISSUE FEE

ISSUE PEE

Commissioner for Patents Alexandria, Virginia 22313-1450 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEB and PUBLICATION FEB (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the correspondence address as indicated onless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CORRESPONDENCE ADDRESS Note: Legally markets with any servicious or we block 1)

Note: A certificate of mailing can only be used for domestic mailings of the

2508

07/07/2003

ROBIN W. EDWARDS NASA LANGLBY RESEARCH CENTER MAIL STOP 212 3 LANGLEY BOULEVARD HAMPTON, VA 23681-2199

Note: A certificate of mailing can only be used for domestic mailings of the Fec(s). Transmittal, This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fec(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mult in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

The state of the s	
Kelly A. Wright	(Дерожіста пипо)
Mach A. White	(Signshire)
1096/03	(Cato)

TOTAL FEE(S) DUE

DATE DUE

APPLICATION NO.	PILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKETNO.	CONFIRMATION NO.	}
09/696,523	10/23/2000	Ji Su	16219-1	4896	-
ATT - A 47 150 1 - 1					

PUBLICATION FEE

TITLE OF INVENTION; MEMBRANE POSITION CONTROL

SMALL ENTITY

APPLN. TYPE

nonprovisional	NO	\$1300	\$0	\$1300	10/07/2003
EXAMINE	R	ARTUNIT	CLASS-SUBCLASS		
BUDD, MARK O	BORNE	2834	310-330000		
1. Change of correspondence CFR 1.363). U Change of correspondence Address form PTO/SB/122) U Fee Address* indication PTO/SB/47; Rev 03-02 or 1 Number is required.	e address (or Change a stached. (or "Fee Address" Indi	of Correspondence	2. For printing on the patent from names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a merolic attorney or agent) and the narregistered patent attorneys or agis listed, no name will be printed.	the name of a registered are of un to 2	W. Edwards
(V) NAME OF ASSIGNED	ssigned is identified being the USPTO or is being America as	elow, no assignee data will submitted under separate (B) RES	PATENT (print or type) I appear on the patent Inclusion of cover. Completion of this form is I SIDENCE: (CITY and STATE OR DY the Administrat	COUNTRY) Washingto	on, DC 20546
Please check the appropriate as	· ·	gories (will not be trinted	on the natent) Lindividual	Corporation or other private p	roma entire. Ki november
4n. The following fee(s) are end			ment of Fee(s):	Groupermann or outer private	Holy Chary Bi government
Olisane Fee		U∧ che	ck in the amount of the fee(s) is ca	rcinsed.	
☐ Publication Fee			ont by credit enid. Form PTO-203:		
Advance Order - # of Copi	es <u>7</u>	Ma The C Deposit	Commissioner is hereby authorized Account Number 14-0116	by charge the required fee(s), or(enclose an extra copy of this	credit any overpayment, to
Commissioner for Patents is rec	prested to apply the las		e (if any) or to re-apply any previo		
(Authorized Signature) NOTB; The Issue Fee and Potter than the applicant; a rinterest as shown by the recontrol of information obtain or retain a benefit by application. Confidentiality is estimated to take 12 minutes completed application form tease. Any comments on the suggestions for reducing this Palent and Trademark Off 22313-1450. DO NOT SENSIBND TO: Commissioner for	ogsettend afterney or day of the public which is to governed by 37 Cl the public which is to governed by 35 U.S. Clo complete, including a the USPTO. Time mount of time you burden, should be sence, U.S. Departmen D. FEES OR COMP! Palente, Alexandria, V.	affed) will not be accepted agent; or the assignce or patent and Irademack Off. R 1.311. The information file (and by the USPTO 1.22 and 37 CFR 1.14. The gathering, preparing, and will way depending upon require to complete this to the Chief Information of Commerce. Alexan BIED FORMS TO THI inginia 2233-1450.	other party in lice. It is required to to process) an installection is submitting the the international form and/or in other individual in form and/or in other individual in form. Virginia is Additional virginia.		
Under the Paperwork Reduc- collection of information unles	tion Act of 1995, no	DETECTS are remained to	respond to a		

,

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents Alexandria, Virginia 22313-1450 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Prient, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fees notifications.

LOGREST CORRESPONDENCE ADDRESS (Note Legisly markets) which my conceases where Pock I

Note: A certificate of mailing can only be used for domestic mailings of the

07/07/2003

ROBIN W. EDWARDS NASA LANGLEY RESEARCH CENTER MAIL STOP 212 3 LANGLEY BOULEVARD HAMPTON, VA 23681-2199

Note: A certificate of reading can only be used for domestic mailings of the Feets? Transmiltal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the
United States Postal Service with sufficient postage for first class mail in an
envelope addressed to the Box Issue Fee address above, or being facaimile
transmitted to the USPTO, on the date indicated below.

Relly A. Wright Awward (Signature) (Duc)

	16)	103	(টামাং)
APPLICATION NO. FILING DATE 09/696,523 10/23/2000 TITLE OF INVENTION: MEMBRANE POSITION CO	MRST NAMED INVENTOR II Su DITROI.	Aftorney Docket no. 16219-1	CONFIRMATION NO. 4896

APPLN. TYPE nonprovisional	SMALL ENTITY	ISSUE FRE	PUBLICATION PEE	707.1	
	NO	\$1300	02	TOTAL PEB(S) DUE	DATE DUE
EXAMIN	ED		3 0	\$1300	10/07/2003
BUDD, MARK		ART UNIT	CLASS-SUBCLASS		
		2834			
1. Charge of concepondent	r addense v i i		310-330000		
1. Change of convespondent CFR 1.363).	o wireness of audication of	"Fee Address" (37	2 Paragraph		
U Change of corresponder Address form PTO/SB/12: U "Fee Address" indication	rendance of		2. For printing on the putent from	t page, list (i)	
Address form PTO/SB/12) stacked (or Charge of	C'Arrenana.	of Streets OD Alama a supplied of	atomi nitorneva	
U "Fee Address" indication PTO/SB/47; Rev 03-02 or Number is xequired	1 (m "Foe Address" Tour		single firm (having as a member Morney or agent) and the asset	the name of a KODIN	W. Edwards
				4 4 7EM 2022EA	
			n italian a constant of the co	PC 16 - 4	
PI BASE NAME AND F	ESIDENCE DATA TO	25000	s listed, no name will be printed.	3	
been recylonely mices an	essigned is identical to	AS SHT NO CETALIAN DA	TENT (print as per		
(A) NAME OF ASSIGNMEN	the USPTO or is being so	w, no assignee data will a	Den on the		
United State		minuted anger schware co.	er. Completion of a	SSIGNED dame to	
and Space to	America as t	(B) RESID	TENT (print or type) ppear on the patent Inchroise of a ver. Completion of this form is NO ENCE: (CITY and STATE OR CO the Administrator	a substitute for films appropriate	when an accionan
opace Admini	Stration	represented by	the Admini	MINTRY) Washing	BCSF and Continued
case check the appropriate and	1	_	ndministrator	of the was	, DC 20546
. The following fee(s) are en-	three category or categor	ict (will not be and		one Mational	Aeronauna
case check the appropriate ass. The following fee(s) are end Issue Fee	osed:	no permited on	appear on the patent. Inclusion of a real, Completion of this form is NO ENCE: (CITY and STATE OR COENCE: (CITY and STATE OR COEN		
Publication Fee		46. Payracti	Of Fame	COMPORATION on an	
Admin tec		₩ A check i	the small an	gron	pentity Agovernm
Advance Order - # of Copies	7	Li Payrount h			- TO SOUTH
amissioner for D		M The Come	we credit out. Form PTO-2038 is a	Defea	
the latter is reque	sted to apply the Town	Deposit Acco	y credit eact. Form P-0-2038 is a sistement is because we described by the count Number 14-0116 (so may) or to re-apply any previously p		
Charitan 4 C	AND BRIDE FE	e and Publication Fee Gra-	14=0116 (6	before a required feet a committee	
Signature)			ny) or to re-apply any previously.	an extra copy of Car fema). Lada oacibranicut fu
- Robert [1] &		(Date)	- Casily p	and tesue for to the ampliant	
1B; The Issue Fee and Publish that the applicant; a register rest us thewn by the records of collection of information is a most or resum a hencefit by the grant or resum a hencefit by the grant of the cation. Confidentiality is remised to make the cation.	wards	1.1.1		- and a second second	entitled above.
met ny though he applicant; a rouis	cation Fee (if required)	10/6/03	1		_
collection of F	the United States of Second	of the assisted from	Anuna	_	
in or retain a benefit ton is	counced by 21 / miles	and Tradespark Officer	raty in		
sted to late to the property is provided	Thic which is to 61-31	I. The information			
leted application formies to con	uplote in A.C. 122 an	d 37 Che USPTO to	ired to		
stions for ments on the small	USPTO Time will	g. preparing This collec	ition is		
and Trademark this burde	n should be you require	depending upon the indi	ng the		
rest a throw of the record of the control of the control of the record of the control of the record of the control of the cont	S. Department to the	Chief Information form	victori i		
the Paners of Patent	A COMPLETED	CIRAC Alexandria	Ŭ.S.		
on of information Reduction A	of loos	313. JASO THIS ADDR	ESS ESS		•
TO: Commissioner for Patent the Paperwork Reduction A on of information unless it dig (REV. 05-03) Approved for	days a valid ON persons	RIC IDentificant			
(REV. 05.03) Approved for	Contro	Tumper of to respond	to a		
Approved for	78	ANSMIT TO	1		

PTOL-85 (REV. 05-03) Approved for use through 04/30/2004 OMR 0551-0033 TRANSMIT THIS FORM WITH FEE(S)